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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		<i>Complete if Known</i>	
		Application Number	09/752,731
		Filing Date	01/03/01
		First Named Inventor	Lawrence Loomis
		Group Art Unit	1616
		Examiner Name	Dameron Levest Jones
Sheet	5	of	11
		Attorney Docket Number	

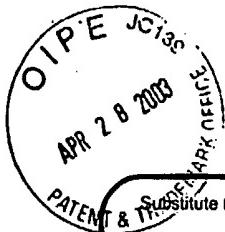
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Examiner Signature		Date Considered	7-21-04
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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/752,731
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				First Named Inventor	Lawrence Loomis
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Sheet	6	of	11	Attorney Docket Number	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS					
Examiner Initials * <i>[Signature]</i>	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ² <i>APR 30 2003</i>
	84	BABENKO et al. Enzymatic lysis of staphylococci in relation to their species and strain properties, 1990, Database Medline Online, US National Library of Medicine, Bethesda, MD, US, Database Accession No. 90297672, XP002170795, abstract only			<i>RECEIVED APR 30 2003 16002000</i>
	85	BARTELL, et al., Origin of polysaccharide depolymerase associated with bacteriophage infection, Journal of Virology, March 1969, pp. 290-298, Vol. 3, No. 3			
	86	BEHNKE, et al., Cloning and expression in Escherichia coli, Bacillus subtilis and Streptococcus sanguis of a gene for staphylokinase - a bacterial plasminogen activator, Mol Gen Genet, December 1987, pp. 528-534, Vol. 210			
	87	BESSEN, et al., Chemical characterization of binding properties of opacity-associated protein II from Neisseria gonorrhoeae, Infection and Immunity, January 1987, pp. 141-147, Vol. 55, No. 1			
	88	BIZIULEVICHUS, et al., In vivo studies on lysosubtilin: 3. Efficacy for treatment of mastitis and superficial lesions of the udder and teats in cows, 1998, Database Biosis Online, Biosciences Information Service, Philadelphia, PA, US, Database Accession No. PREV199800492606, XP002183274, abstract only			
	89	BOIZET, et al., Cloning, expression and sequence analysis of an endolysin-encoding gene of Lactobacillus bulgaricus bacteriophage mv1, Gene, 2000, pp. 61-67, Vol. 94			
	90	CALDWELL, et al., Purification and partial characterization of the major outer membrane protein of Chlamydia trachomatis, Infection and Immunity, March 1981, pp. 1161-1176, Vol. 31, No. 3			
	91	YOUNG et al. Phages will out: strategies of host cell lysis, Trends in Microbiology, Volume 8 No. 3, March 2000, pp 120-127			
	92	CORBEL, et al., Soluble antigens obtained from influenza virus by treatment with non-ionic detergent, J Hyg., Camb., 1970, pp. 81-96, Vol. 68			
	93	CROUX, et al., Interchange of functional domains switches enzymes specificity: construction of a chimeric pneumococcal-clostridial cell wall lytic enzyme, Molecular Microbiology, 1993, pp.1019-25, Vol. 9, No. 5			
<i>✓</i>	94	DIAZ, et al., Chimeric phage-bacterial enzymes: a clue to the modular evolution of genes, Proc. Natl. Acad. Sci. USA, October 1990, pp. 8125-8129, Vol. 87			

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SLP	95	DIAZ, et al., Chimeric pneumococcal cell wall lytic enzymes reveal important physiological and evolutionary traits, Journal of Biological Chemistry, March 25, 1991, pp. 5464-5471, Vol. 266, No. 9	
	96	DIXON, et al., Lysostaphin: an enzymatic approach to staphylococcal disease. III. Combined lysostaphin-methicillin therapy of established staphylococcal abscesses in mice, The Yale Journal of Biology and Medicine, August 1988, pp. 62-68, Vol. 41, No. 1	
	97	FISCHETTI, et al., Size variation of the M protein in group A streptococci, Journal of Exp. Med., June 1, 1985, pp. 1384-1401, Vol. 161, No. 6	
	98	GARCIA, et al., Bacteriophages of Streptococcus pneumoniae: A molecular approach, Microbial Drug Resistance, Summer 1997, pp. 165-176, Vol. 3, No. 2	
	99	GARCIA, et al., Cloning, purification and biochemical characterization of the pneumococcal bacteriophage Cp-1 lysis, Journal of Virology, August 1987, pp. 2573-2580, Vol. 61, No. 8	
	100	GARCIA, et al., Modular organization of the lytic enzymes of streptococcus pneumoniae and its bacteriophages, Gene, 1990, pp. 81-88, Vol. 86	
	101	GERARDY-SCHANN, et al., Molecular cloning and functional expression of bacteriophage PK1E-encoded endoneuraminidase Endo NE, Molecular Microbiology, May 1995, pp. 441-450, Vol. 16, No. 3	
	102	GOLDBERG, et al., Studies in experimental staphylococcal endocarditis in dogs, Antimicrobial Agents and Chemotherapy, 1967, pp. 45-53	
	103	HARRISON, et al., Lysostaphin in experimental renal infections, Journal of Bacteriology, February 1967, pp. 520-524, Vol. 93, No. 2	
	104	HARRISON, et al., Therapeutic activity of lysostaphin in experimental staphylococcal infections, Canadian Journal of Microbiology, January 1967, pp. 93-97, Vol. 13, No. 1	
✓	105	HAYASHI, et al., Effects of N-Acetyl muramidase from Streptomyces rufescens H-46 as a food preservative, Agric. Biol. Chem., December 1969, pp. 3173-3177, Vol. 53, No. 12	

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	106	HAYASHIDA, et al., Further characterization of PL-1 phage associated N-acetylmuramidase of Lactobacillus casei, Journal of General Microbiology, May 1987, pp. 1343-1349, Vol. 133, No. 5	
	107	HIGUCHI, et al., Transfection of streptococcus sanguis by phage deoxyribonucleic acid isolated from streptococcus mutans, Infection and Immunity, March 1977, pp. 945-949, Vol. 15, part 3	
	108	HUAN, et al., Methicillin-resistant staphylococcus aureus infection and its treatment in burned patients, Chinese Journal of Surgery, 1994, Vol. 32, No. 4, abstract	
	109	HUGHEY, et al., Antimicrobial activity of lysozyme against bacteria involved in food spoilage and food-borne disease, Applied and Environmental Microbiology, September 1987, pp. 2165-2170, Vol. 53, No. 9	
	110	KOHLER, Systemic therapy with aerosols Aerosols in Medicine: Principles, Diagnosis and Therapy, 1993, Elsevier Science Publishers, pp. 303-319	
	111	LAWMAN, et al., Molecular cloning of the extracellular endodextranase of streptococcus salivarius, Journal of Bacteriology, December 1991, pp. 7423-7428, Vol. 173, No. 23	
	112	LOESSNER, et al., Evidence for a holin-like protein gene fully embedded out of frame in the endolysin gene of staphylococcus aureus bacteriophage 187, Journal of Bacteriology, August 1999, pp. 4452-4460, Vol. 181, No. 15	
	113	LOESSNER, et al., Modified listeria bacteriophage lysin genes (ply) allow efficient overexpression and one - step purification of biochemically active fusion proteins, Applied and Environmental Microbiology, August 1996, pp. 3057-3060, Vol. 62, No. 8	
	114	LOPEZ, et al., Architecture and domain interchange of the pneumococcal cell wall lytic enzymes, Genetics of Streptococci, Enterococci and Lactococci, Developments in Biological Standardization, 1995, pp. 273-281, Vol. 85	
	115	LOPEZ, et al., The pneumococcal cell wall degrading enzymes a modular design to create new lysins, Microbial Drug Resistance, November 2, 1997, pp. 199-211, Vol. 3, No. 2	
	116	MARTIN, et al., Functional analysis of the two-gene lysis system of the pneumococcal phage Cp-1 in homologous and heterologous host cells, Journal of Bacteriology, January 1998, pp. 210-217, Vol. 180, No. 2	

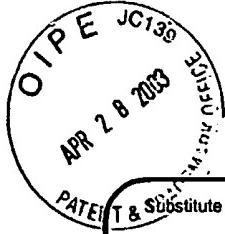
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Sheet 9 of 11

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First Named Inventor	Lawrence Loomis
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Examiner Name	Dameron Levest Jones

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BSP	117	MUKHLIS, et al., Characterization and immunogenicity of HSV-1 antigens obtained following zwitterionic detergent treatment; Vaccine, September 1986, pp. 191-196, Vol. 4	
	118	NELSON, et al., Prevention and elimination of upper respiratory colonization of mice by group A streptococci by using a bacteriophage lytic enzyme, PNAS, March 27, 2001, pp. 4107-4112, Vol. 98, No. 7	
	118	NELSON, et al., Selective and rapid killing of group A streptococci using a muralytic enzyme, Database Biosis Online, Biosciences Information Service, Philadelphia, PA, US and abstracts of the General Meeting of the American Society for Microbiology, 2000, pp. 32-33	
	120	OKI, et al., Functional and structural features of the holin HOL protein of the Lactobacillus plantarum phage analysis in escherichia coli system, Gene, 1997, pp. 137-145, Vol. 197	
	121	OKUHARA, et al., Preparation of group A streptococcal cell membranes by treatment with group C streptococcus phage - associated lysin, Annales Paediatrici Japonici, June 1983, pp. 10-19, Vol. 29, No. 2	
	122	PATTON, et al., Routes of delivery: case studies, Pulmonary delivery of peptides and proteins for systemic action, Advanced Drug Delivery Reviews, 1992, pp. 179-196, Vol. 8	
	123	POLAK, et al., In vitro activity of recombinant lysostaphin-antibiotic combinations toward methicillin-resistant staphylococcus aureus, Diagn. Microbiol. Infect. Dis., 1993, pp. 265-270, Vol. 17	
	124	RAINA, Purification of streptococcus group C bacteriophage lysin, Journal of Bacteriology, January 1981, pp. 661-663, Vol. 145, No. 1	
	125	RONDA, et al., Infection of streptococcus oralis NCTC 11427 by pneumococcal phages, FEMS Microbiology Letters, 1989, pp. 187-192, Vol. 65	
	126	SANZ, et al., Construction of a multifunctional pneumococcal murein hydrolase by module assembly, Eur. J. Biochem., February 1, 1996, pp. 601-605, Vol. 235, No. 3	
↓	127	SATO, et al., Partial characterization of n - Butanol - solubilized rejection - type antigens of syngeneic murine colon tumors, JNCI, April 1985, Vol. 74, No. 4	

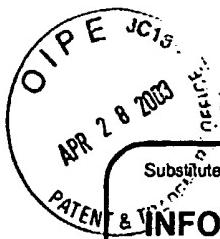
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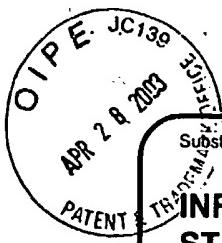
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U.S. PATENT DOCUMENTS

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		Number - Kind Code ² (if known)			
1	US-6056054	05/02/00	Fischetti, et al.		
2	US-5997862	12/07/99	Fischetti, et al.		
3	US-5985271	11/16/99	Fischetti, et al.		
4	US-5688501	11/18/97	Merni, et al.		
5	US-4742981	05/10/88	Converse		
6	US-2019789	11/05/35	Mahannah		
7	US-2763931	09/25/56	McMillan		
8	US-5478732	01/02/96	Burkhardt, et al.		
9	US-3465445	09/09/69	Fisher		
10	US-2315260	03/30/43	Lancaster		
11	US-5604109	02/18/97	Fischetti, et al.		
12	US-5260292	11/09/93	Robinson, et al.		
13	US-4957686	09/18/90	Norris		
14	US-6017528	01/25/00	Fischetti, et al.		
15	US-6132970	10/17/00	Stemmer		
16	US-3852424	12/08/74	Gaeumann, et al.		
17	US-6264945	07/24/01	Fischetti, et al.		
18	US-6254866	07/03/01	Fischetti, et al.		
19	US-6248324	06/19/01	Fischetti, et al.		
20	US-6238661	05/29/01	Fischetti, et al.		

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
21	EP-0510907 A 2	10/28/92	Agricultural & Food Res.			
22	WO-9702351	01/23/97	CIBA Geigy AG, et al.			
23	WO-9607329	03/14/96	Univ. Maryland			
24	WO-9904809	02/04/99	Ambi, Inc.			
25	FR-2357246	02/03/78	Martinez			
26	WO-9531562	11/23/95	Quest International B.V.			
27	EP-587541 A1	03/16/94	Tecnogen ScpA			

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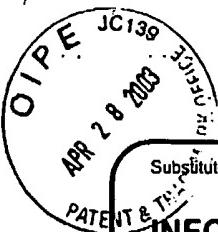
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26	US- 6056956		06/02/00	Fischetti, et al.	
29	US- 5882631		03/16/99	Suga, et al.	
30	US- 5741487		04/21/98	Asai, et al.	
31	US- 6113887		09/05/00	Mori, et al.	
32	US- 4122158		10/24/78	Schmitt	
33	US- 3983209		09/28/76	Schmitt	
34	US- 4885163		12/05/89	Shaar, et al.	
35	US- 6117554		01/23/01	Woo, et al.	
36	US- 6187757		02/13/01	Clackson, et al.	
37	US- 5162226		11/10/92	Beachey, et al.	
38	US- 6335012		01/01/02	Fischetti, et al.	
39	US- 6326002		12/04/01	Fischetti, et al.	
40	US- 6277399		08/21/01	Fischetti, et al.	
41	US- 4062941		12/13/77	Davies	
42	US- 5571667		11/05/98	Chu, et al.	
43	US- 5514602		05/07/96	Brooks Jr, et al.	
44	US- 5500350		03/19/96	Baker, et al.	
45	US- 5384265		01/24/95	Kidwell, et al.	
46	US- 4381537		11/30/82	Deutsch, et al.	
47	US- 5120643		06/09/92	Ching, et al.	

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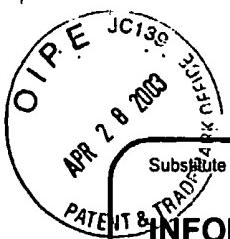
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	48	WO-9323544	11/25/93	The University Court of the University of Glasgow	
	49	EP-0293249 A1	11/30/88	Ariad Corporation Limited	
	50	EP-0646646 A2	04/05/95	Bristol-Myers Squibb Company	
	51	EP-0359873 A1	03/28/90	The Public Health Research Inst. of the City of New York	

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	52	US-4048726	08/14/90	Longeria	
	53	US-4459361	07/10/84	Gefter	
	54	US-4552838	11/12/85	Gould, et al.	
	55	US-4313734	02/02/82	Leuvering	
	56	US-4847189	07/11/89	Snyder, et al.	
	57	US-4497900	02/05/85	Abram, et al.	
	58	US-4707543	11/17/87	Zollinger, et al.	
	59	US-5763251	09/09/96	Gasson	
	60	US-8159688	12/12/00	Borchert, et al.	
	61	US-4784948	11/15/88	Scott, et al.	
	62	US-5760026	06/03/98	Blackbum, et al.	
	63	US-5602040	02/11/97	May, et al.	
	64	US-4521252	06/04/85	Miyake, et al.	
	65	US-4355022	10/19/82	Rabusay	
	66	US-4115546	09/19/78	Vidra, et al.	
	67	US-4116327	09/26/78	Eglinson, et al.	
	68	US-3929994	12/30/75	Hirsch, et al.	
	69	US-6083684	07/04/00	Gasson	
	70	US-5360617	11/01/94	Gasson	
	71	US-5079174	01/07/92	Buck, et al.	

FOREIGN PATENT DOCUMENTS

**Examiner
Signature**

G. Glass

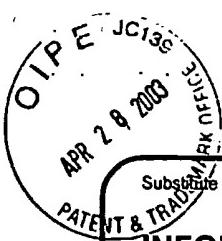
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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

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Sheet 4 of 11

Complete if Known	
Application Number	09/752,731
Filing Date	01/03/01
First Named Inventor	Lawrence Loomis
Group Art Unit	1616
Examiner Name	Dameron Levest Jones
Attorney Docket Number	

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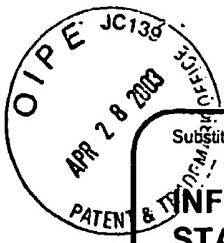
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<i>Complete if Known</i>	
Application Number	09/752,731
Filing Date	January 3, 2001
First Named Inventor	Lawrence Loomis
Group Art Unit	1616
Examiner Name	Jones, Dameron Levest
Attorney Docket Number	

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Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	133	US- 6605703	02/25/97	Stemmer	
	134	US- 6355477	03/12/02	Fischetti et al	
	135	US- 6331405	12/18/01	Rambukkana et al	
	136	US- 6190659	02/20/01	Pancholi et al	
	137	US- 5985654	11/16/99	Fischetti et al	
	138	US- 5842314	11/24/98	Scott et al	
	139	US- 5910441	06/08/99	Rocha et al	
	140	US- 5786205	07/21/98	Fischetti et al	
	141	US- 5976792	11/02/98	Cheung et al	
	142	US- 5821088	10/13/98	Darzins et al	
	143	US- 5723303	03/07/98	Fischetti et al	
	144	US- 5643767	07/01/97	Fischetti et al	
	145	US- 5707822	01/13/98	Fischetti et al	
	146	US- 5616686	04/01/97	Fischetti et al	
	147	US- 5604109	02/18/97	Fischetti et al	
	148	US- 5587288	12/24/96	Cheung et al	
	149	US- 5556944	09/17/96	Fischetti et al	
	150	US- 5352588	10/04/94	Fischetti et al	
	151	US- 5968763	10/19/99	Fischetti et al	
	152	US- 4784048	11/15/88	Scott et al	

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